



INNOLUX DISPLAY CORPORATION

MT215DW01 V.0 LCD MODULE SPECIFICATION

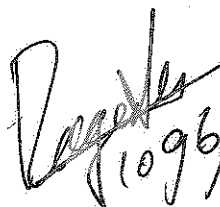
☒ Preliminary Specification

☐ Final Specification

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1096/b.

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2009.6.16

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INNOLUX DISPLAY CORPORATION

MT215DW01 V.0 LCD MODULE SPECIFICATION

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Record of Revision

Version	Revise Date	Page	Content
1.0	2009/06/02		First edition to all Pre-Spec.



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A. General specification

NO.	Item	Specification	Remark
1	Display resolution (pixel)	1,920(H) X 1080(V), Full HD resolution	
2	Active area (mm)	476.64(H) X268.11 (V)	
3	Screen size (inch)	21.53 inches diagonal	
4	Pixel pitch (mm)	0.24825(H) X0.24825 (V)	
5	Color configuration	R, G, B vertical stripe	
6	Overall dimension (mm)	495.6(W) X 292.2(H) X 16.35 (D) (typ.)	
7	Color Gamut	72% NTSC	
8	Weight (g)	2200 (Typical)	
9	Surface treatment	Anti-Glare, Haze=25%, Hard coating (3H)	Note 1
10	Input color signal	8 bit LVDS	
11	Display colors	16.7M (6 bit with Hi-FRC)	
12	Optimum viewing direction	6 o'clock	
13	Backlight	4 CCFL	
14	Others	RoHS & TCO 5.0& Halogen Free compliance	

Note 1: Glare Option.

B. Electrical specifications

1. Pin assignment

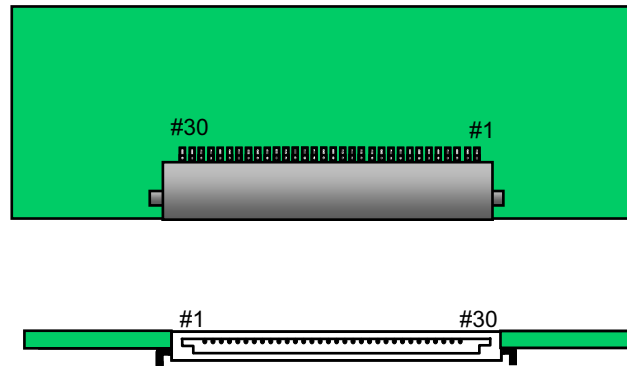
Connector

FOXCONN GS23302-0011 R-7F or mechanical interface equivalent connector.

Pin No	Symbol	Description
Frame	VSS	Ground
1	RXinO0-	-LVDS differential data input, Chan 0-Odd
2	RXinO0+	+LVDS differential data input, Chan 0-Odd
3	RXinO1-	-LVDS differential data input, Chan 1-Odd
4	RXinO1+	+LVDS differential data input, Chan 1-Odd
5	RXinO2-	-LVDS differential data input, Chan 2-Odd
6	RXinO2+	+LVDS differential data input, Chan 2-Odd
7	VSS	Ground
8	RXOC-	-LVDS differential Clock input (Odd)
9	RXOC+	+LVDS differential Clock input (Odd)
10	RXinO3-	-LVDS differential data input, Chan 3-Odd
11	RXinO3+	+LVDS differential data input, Chan 3-Odd
12	RXinE0-	-LVDS differential data input, Chan 0-Even
13	RXinE0+	+LVDS differential data input, Chan 0-Even
14	VSS	Ground
15	RXinE1-	-LVDS differential data input, Chan 1-Even
16	RXinE1+	+LVDS differential data input, Chan 1-Even
17	VSS	Ground
18	RXinE2-	-LVDS differential data input, Chan 2-Even
19	RXinE2+	+LVDS differential data input, Chan 2-Even
20	RXEC-	-LVDS differential Clock input (Even)
21	RXEC+	+LVDS differential Clock input (Even)
22	RXinE3-	-LVDS differential data input, Chan 3-Even
23	RXinE3+	+LVDS differential data input, Chan 3-Even
24	VSS	Ground
25	NC	No Connection
26	NC	No Connection
27	NC	No Connection
28	VCC	+5.0V power supply
29	VCC	+5.0V power supply
30	VCC	+5.0V power supply
Frame	VSS	Ground

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Rear view of LCM

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2. Absolute maximum ratings

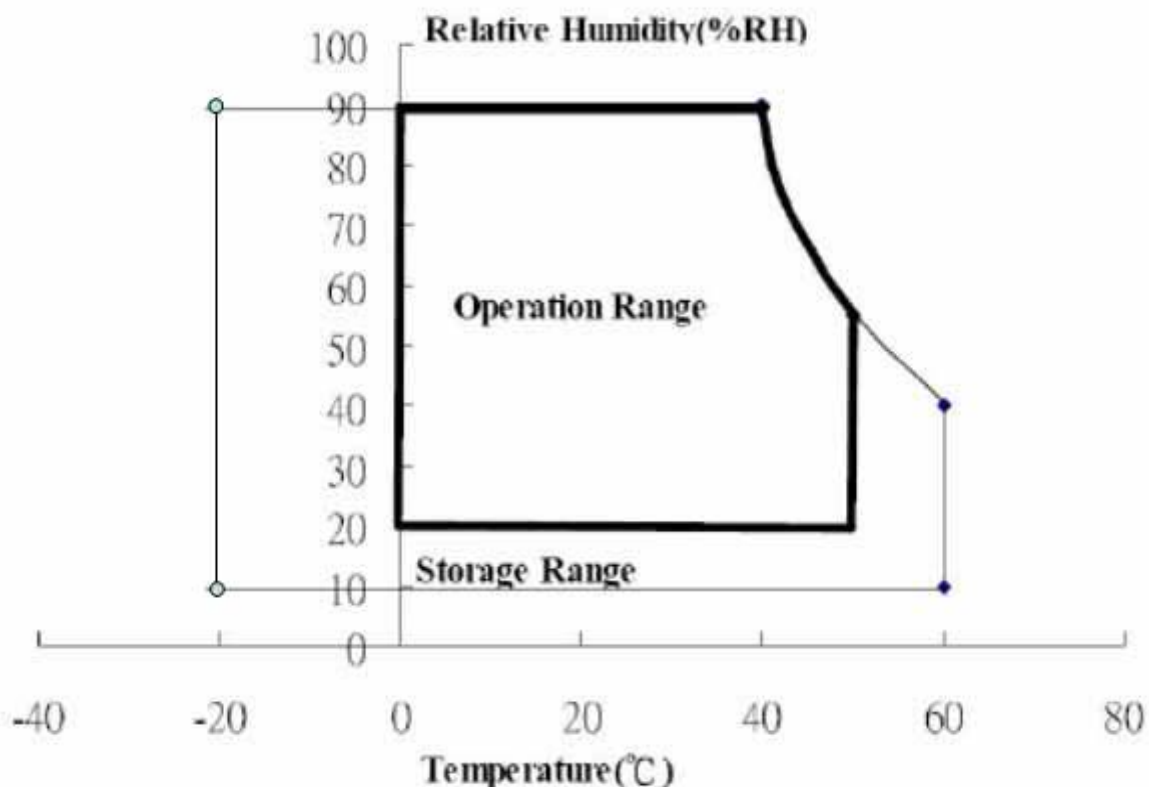
Parameter	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Power voltage	V_{CC}	-0.3	-	6.0	V	At 25°C
Input signal voltage	V_{LH}	-0.3	-	4.3	V	At 25°C
Operating temperature	T_{OP}	0	-	50	°C	Note 1
Storage temperature	T_{ST}	-20	-	60	°C	Note 2
CCFL Current	I_{CFL}	3.0	-	8.0	[mA]	Note 3

Note 1: The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less.

At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C.

Note 2: The unit should not be exposed to corrosive chemicals.

Note 3: Permanent damage to the device may occur if exceeding maximum values and within 25°C.



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3. Electrical characteristics

a. Typical operating conditions

Item		Symbol	Min.	Typ.	Max.	Unit	Remark
Input Voltage		V_{CC}	4.5	5	5.5	V	
Permissive Power Input Ripple		V_{RF}	-	-	0.15	Vp-p	
Input Current	Black	I_{CC}	-	1000	1300	mA	Note 1
	White	I_{CC}	-	700	1000		Note 2
	Mosaic	I_{CC}	-	900	1200		Note 3
Rush Current		I_{Rush}	-	1.6	3	A	Note 4
Logic Input Voltage LVDS: IN+, IN-	Common Mode Voltage	VCM	-	1.2	-	V	
	Differential Input Voltage	VID	100	-	600	mV	
	Threshold Voltage (High)	VTH	-	-	100	mV	Note 5
	Threshold Voltage (Low)	VTL	-100	-	-	mV	Note 5

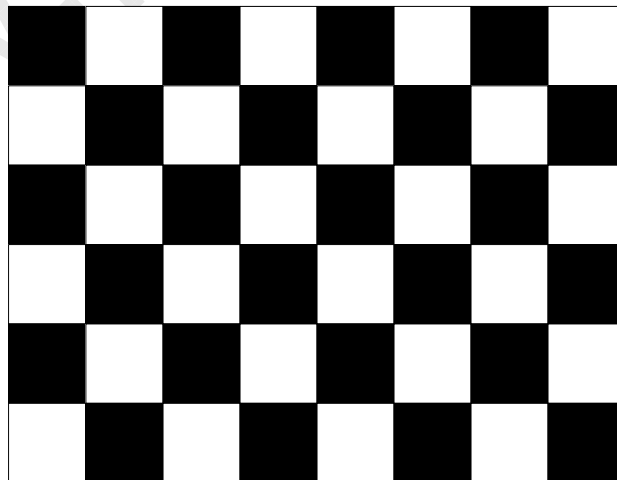
Note 1 : The specified current is under the $V_{CC}=5V$, $25^{\circ}C$, $f_v=60Hz$ (frame frequency) condition whereas black pattern is displayed.

Note 2 : The specified current is under the $V_{CC}=5V$, $25^{\circ}C$, $f_v=60Hz$ (frame frequency) condition whereas white pattern is displayed.

Note 3 : The specified current is under the $V_{CC}=5V$, $25^{\circ}C$, $f_v=60Hz$ (frame frequency) condition whereas mosaic pattern(black & white [8*6]) is displayed.

White: 255 Gray

Black: 0 Gray



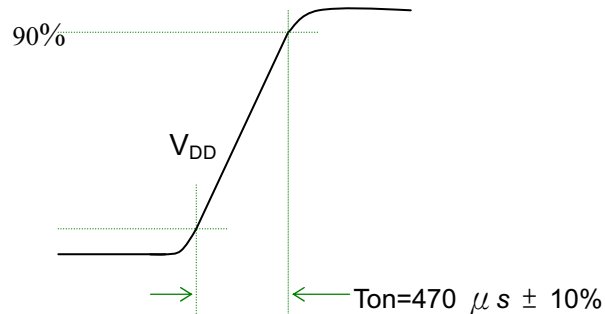
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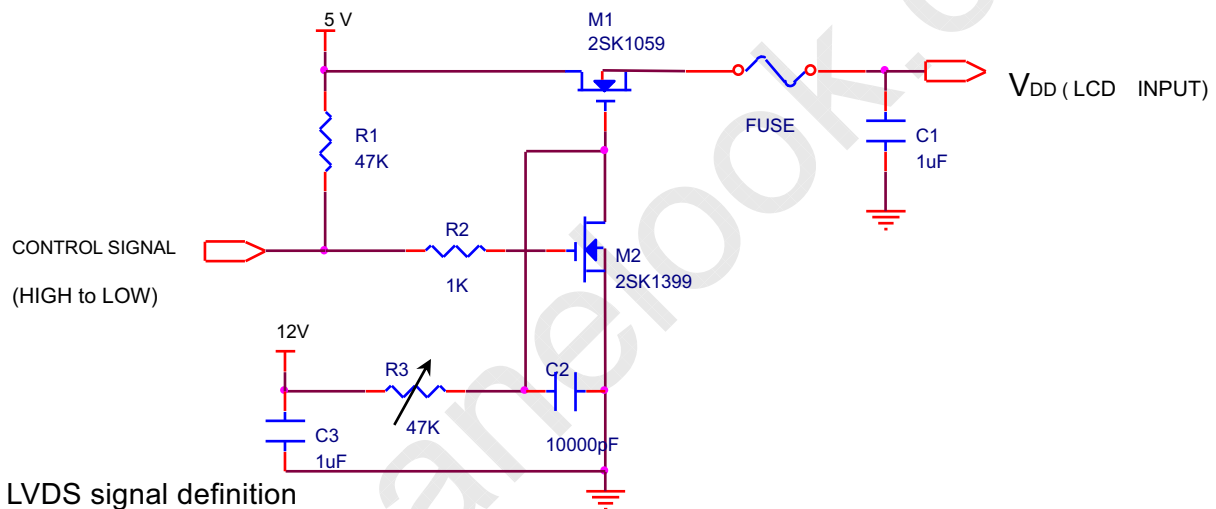
Note 4: test condition :‘

(1) $V_{DD} = 5\text{ V}$, V_{DD} rising time = $470\text{ }\mu\text{s} \pm 10\%$

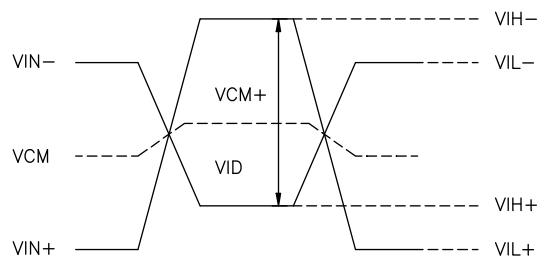
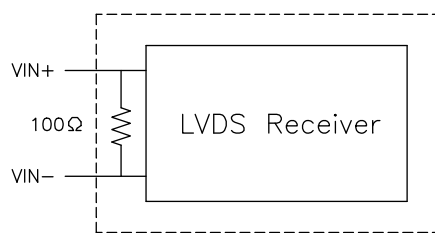
(2) Pattern: Mosaic pattern



(3) Test circuit

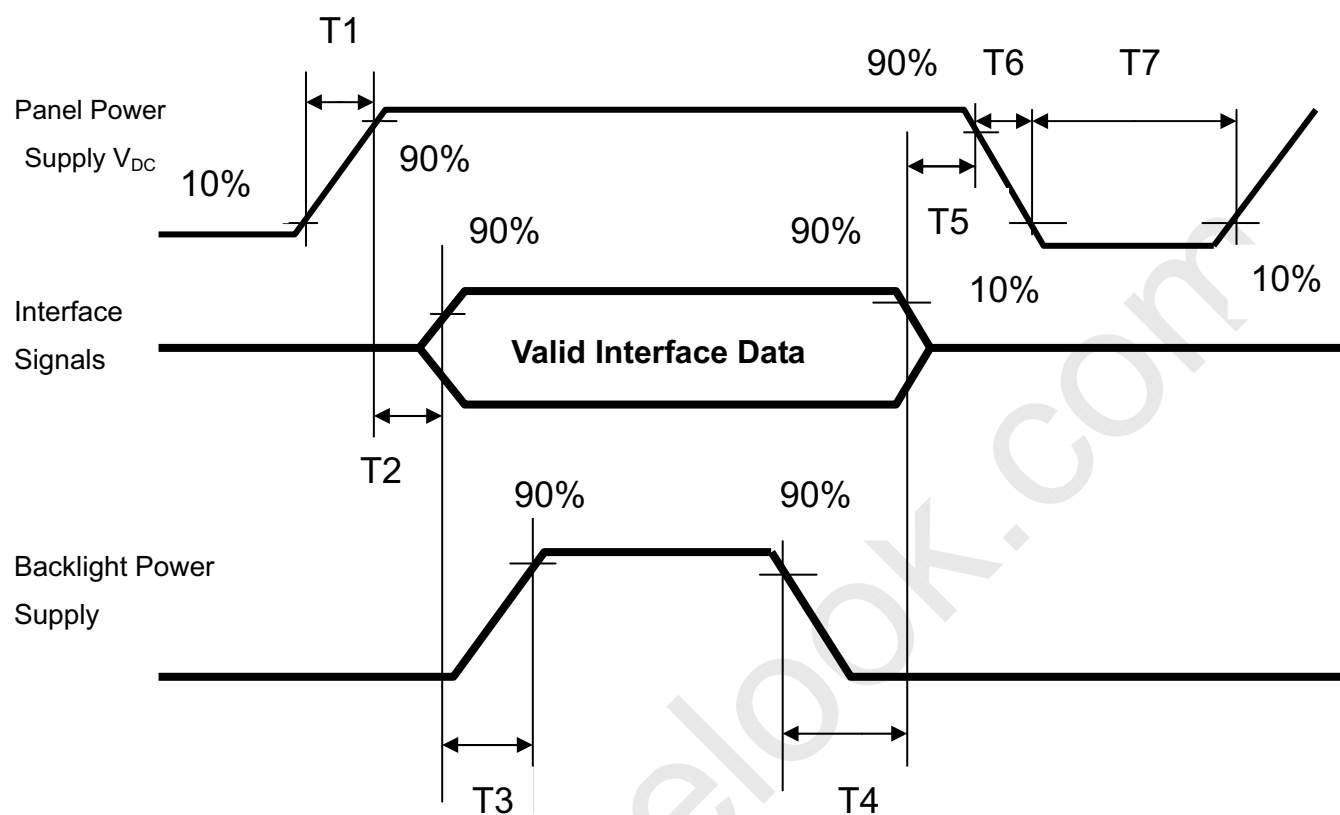


Note 5: LVDS signal definition

 VIN_+ = Positive differential DATA & CLK Input VIN_- = Negative differential DATA & CLK Input $VID = VIN_+ - VIN_-$, $\Delta VCM = |VCM_+ - VCM_-|$, $\Delta VID = |VID_+ - VID_-|$, $VID_+ = |VIH_+ - VIH_-|$, $VID_- = |VIL_+ - VIL_-|$, $VCM = (VIN_+ + VIN_-)/2$, $VCM_+ = (VIH_+ + VIH_-)/2$, $VCM_- = (VIL_+ + VIL_-)/2$,

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Note 6: Power on sequence for LCD V_{DD} 

Parameter	Value			Unit
	Min	Typ	Max	
T1	0.1	-	10	ms
T2	0	30	50	ms
T3	200	250	-	ms
T4	100	250	-	ms
T5	0	20	50	ms
T6	0.1	-	10	ms
T7	1000	-	-	ms



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b. Display color vs. input data signals

The brightness of each primary color (red, green and blue) is based on the 8-bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

Color		Input color data																							
		Red								Green								Blue							
		MSB				LSB				MSB				LSB				MSB				LSB			
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	B3	B2	B1	B0
Basic colors	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Blue(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Red	Red(000) dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(001)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(002)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Red(253)	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(255) bright	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green	Green(000)dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Green(002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Green(253)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
	Green(254)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	Green(255)bright	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Blue	Blue(000) dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue(002)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	Blue(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
	Blue(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	Blue(255) bright	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

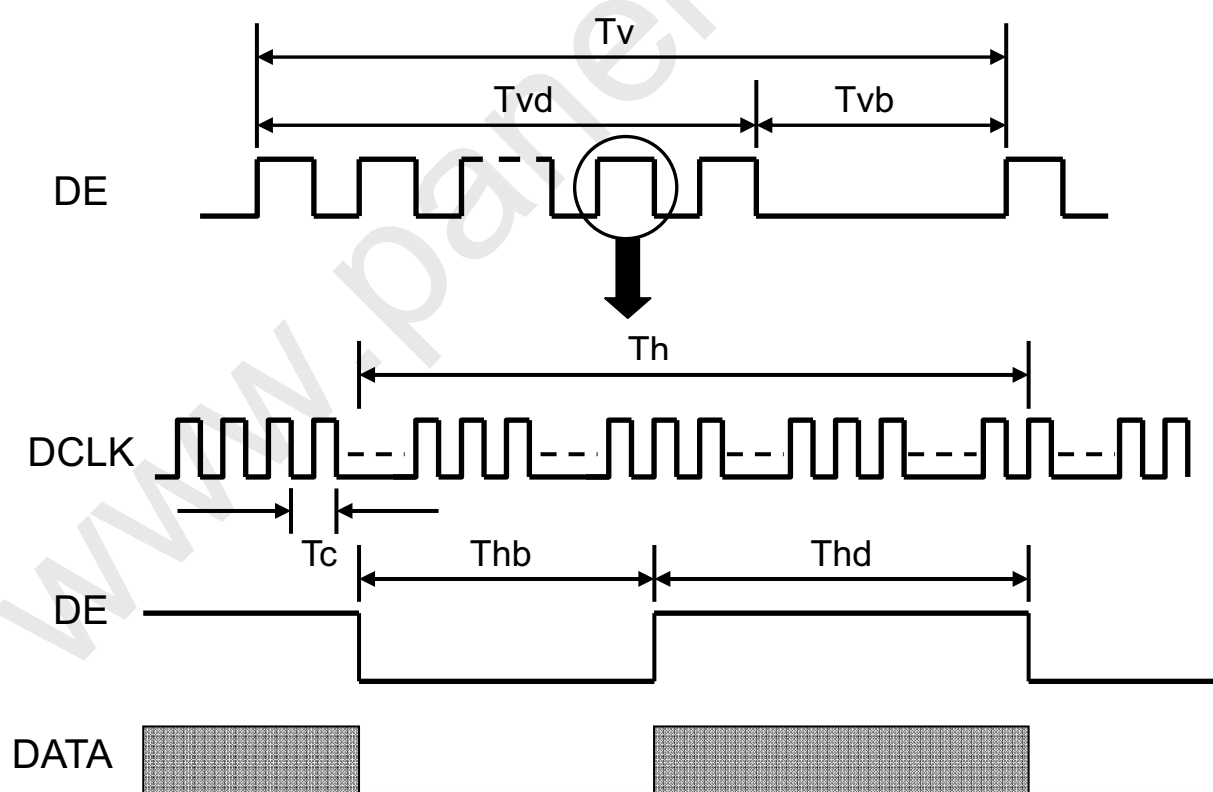
c. Input signal timing

Support Input Timing Table

	Item	Description	Min.	Typ.	Max.	Unit
Clock	Dclk	period	11.43	13.89	16.7	nS
		frequency	60	72	87.5	MHz
Vertical	T_{V_TOTAL}	V total line number	1090	1100	1160	T_{H_TOTAL}
	T_{V_DATA}	Data duration	—	1080	—	T_{H_TOTAL}
	T_{VB}	V-blank	10	20	80	T_{H_TOTAL}
	f_V	frequency	50	60	75	Hz
Horizontal	T_{H_TOTAL}	H total pixel number	1000	1088	1120	DClk
	T_{H_DATA}	Data duration	—	960	—	DClk
	T_{HB}	H-blank	40	128	160	DClk

Note: Because this module is operated by DE only mode, Hsync and Vsync input signals should be set to low Logic level or ground. Otherwise, this module would operate abnormally.

INPUT SIGNAL TIMING DIAGRAM



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d. Display Position

D(1,1)	D(2,1)		D(960,1)		D(1919,1)	D(1920,1)
D(1,2)	D(2,2)		D(960,2)		D(1919,2)	D(1920,2)
.	.		.		.	.
D(1,540)	D(2,540)		D(960,540)		D(1919,540)	D(1920,540)
.	.		.		.	.
D(1,1079)	D(2,1079)		D(960,1079)		D(1919,1079)	D(1920,1079)
D(1,1080)	D(2,1080)		D(960,1080)		D(1919,1080)	D(1920,1080)

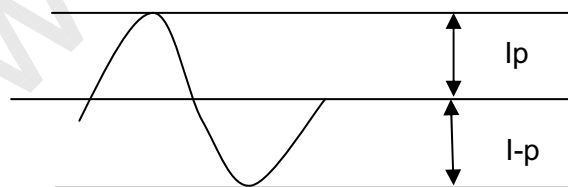
e. Backlight driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark	Remark
Lamp voltage	VL	-	800	880	Vrms		
Lamp operation current	IL	3.0	7.0	8.0	mA _{rms}		Note 1,9
Lamp starting voltage	VLstart	1480 (Ref)	-	-	Vrms	T = 25°C	Note 2,3,4,5,9
		1780 (Ref)	-	-		T = 0°C	Note 2,3,4,5,9
Frequency	F	40	-	60	KHZ		Note 5,7,8,9
Lamp life time		50,000	-	-	Hr		Note 6

Note: The waveform of the voltage output of inverter must be area-symmetric and the design of the inverter must have specifications for the modularized lamp. The performance of the Backlight, such as lifetime or brightness, is greatly influenced by the characteristics of the DC-AC inverter for the lamp. All the parameters of an inverter should be carefully designed to avoid producing too much current leakage from high voltage output of the inverter. When designing or ordering the inverter please make sure that a poor lighting caused by the mismatch of the Backlight and the inverter (miss-lighting, flicker, etc.) never occurs. If the above situation is confirmed, the module should be operated in the same manners when it is installed in your instrument.

Note 1: The degree of unbalance: less than 10%

The ratio of wave height: less than $\sqrt{2} \pm 10\%$



I_p: high side peak

I_{-p}: low side peak

The degree of unbalance = $|I_p - I_{-p}| / I_{rms} \times 100(\%)$

The ratio of wave height = I_p (or I_{-p}) / I_{rms}

Lamp should be completely turned on.

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Note 2: Test equipment: AS-114B

Note 3: The voltage shown above should be applied to the lamp for more than 1 second after startup. Otherwise, the lamp may not be turned on normally.

Note 4: Inverter should provide more than max. value, and then lamp could be completely turned on

Note 5: Lamp frequency may produce interference with horizontal synchronous frequency and this may cause line flow on the display. Therefore lamp frequency shall be detached from the horizontal synchronous frequency and its harmonics as far as possible in order to avoid interference.

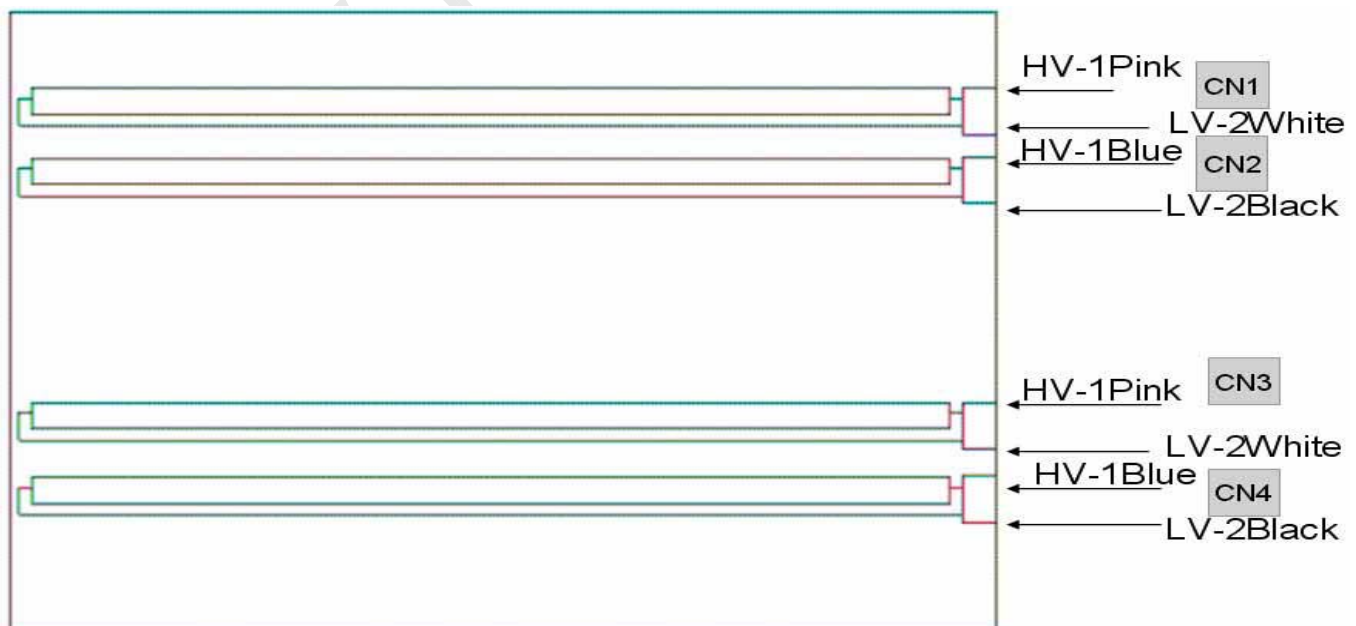
Note 6: Life time (Hr) is defined as the time when brightness of a lamp unit itself becomes 50% or less than its original value at the condition of $T_a = 25 \pm 2^\circ\text{C}$ and $IL = 7.0\text{mA rms}$.

Note 7: While designing an inverter, it is suggested to check safety circuit very carefully, Impedance of CCFL, for instance, becomes more than 1 [M ohm] when CCFL is damaged.

Note 8: Generally, CCFL has certain delay time after applying kick off voltage. It is recommended to keep on applying kick-off voltage for 1[second] Unit discharge.

Note 9: When applying kick-off voltage, the driving frequency should be less than 60KHZ as it may cause leakage current so that the system shut down; And the driving style of Backlight CCFL is suggested as below when operating in high altitude(above 3000m):

CN1,CN2					
Pin		Symbol		Description	Remark
CN1	1	HV(+)		High Voltage	Pink
	2	LV		Low Voltage	White
CN2	1	HV(+)		High Voltage	Blue
	2	LV		Low Voltage	Black
*The waveform of CN1-1&CN2-1 is strongly suggested to be in the same phase					
CN3,CN4					
Pin		Symbol		Description	Remark
CN3	1	HV(+)	HV(-)	High Voltage	Pink
	2	LV	LV	Low Voltage	White
CN4	1	HV(+)	HV(-)	High Voltage	Blue
	2	LV	LV	Low Voltage	Black
*The waveform of CN3-1&CN4-1 is srtrongly suggested to be in the same phase					



**C. Optical specifications**

Item	Symbol	Condition	Specification			Unit	Remark
			Min.	Typ.	Max.		
Response time	Tr	$\theta = 0^\circ$	-	1.5	3	ms	Note 4
	Tf		-	3.5	7		
	Tr+Tf		-	5	10		
Contrast ratio	CR	$\theta = 0^\circ$	700	1000	-		Note 3,5
Viewing angle	Top	$CR \geq 10$	70	80	-	deg.	Note 3,5,7
	Bottom	$CR \geq 10$	70	80	-		
	Left	$CR \geq 10$	75	85	-		
	Right	$CR \geq 10$	75	85	-		
Brightness (Center)	YL	-	250	300	-	nits	Note 3,6
Color chromaticity(CIE)	Wx	$\theta = 0^\circ$	-0.03	0.313	+0.03		Note 3
	Wy			0.329			
	Rx			TBD			
	Ry			TBD			
	Gx			TBD			
	Gy			TBD			
	Bx			TBD			
	By			TBD			
White uniformity (9)	δ_w	-	0.75	0.80	-		Note 3,8
Cross talk(In 60HZ)	Ct	-	-	-	2%		Note 9

Note 1: Ambient temperature = 25°C.

Note 2: To be measured in dark room after backlight warm up 30 minutes.

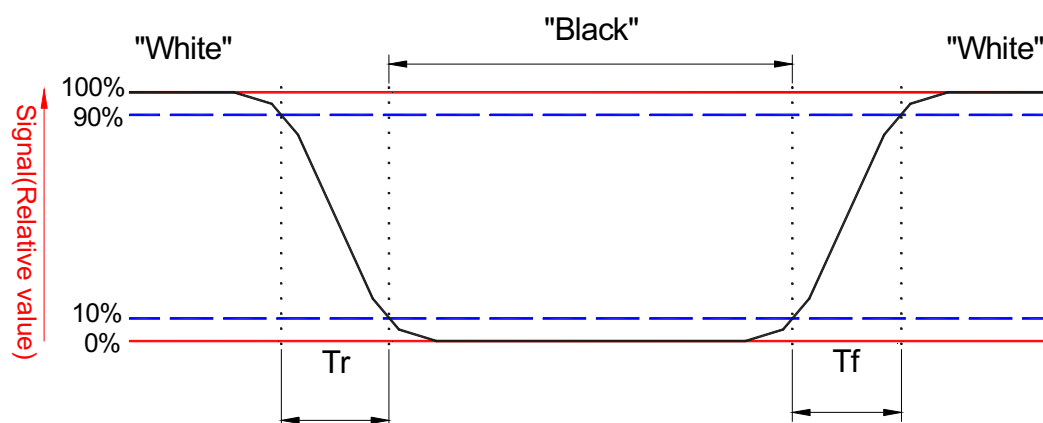
Note 3: To be measured with a viewing cone of 2° by Topcon luminance meter BM-5A.

Note 4: Definition of response time:

The output signals of BM-7 are measured when the input signals are changed from “Black” to “White” (falling time) and from “White” to “Black” (rising time), respectively. The response time interval is between the 10% and 90% of amplitudes. Refer to figure as below.

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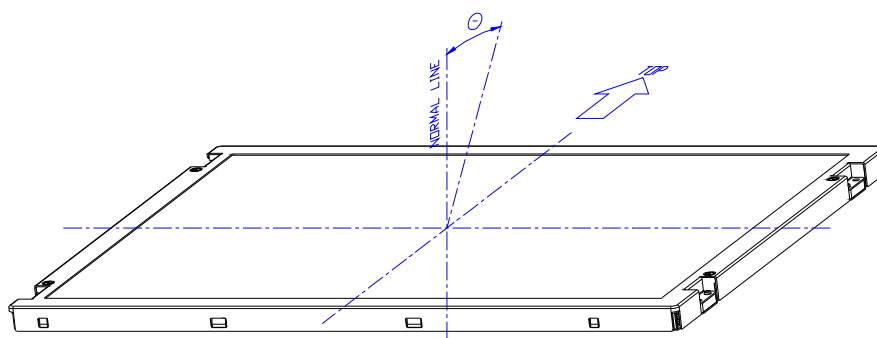
Note 5: Definition of contrast ratio:

Contrast ratio is calculated by the following formula.

$$\text{Contrast ratio (CR)} = \frac{\text{Brightness on the "white" state}}{\text{Brightness on the "black" state}}$$

Note 6: Driving conditions for CCFL: $I_L = 7 \text{ mA}$, 50 KHz Frequency.

Note 7: Definition of viewing angle



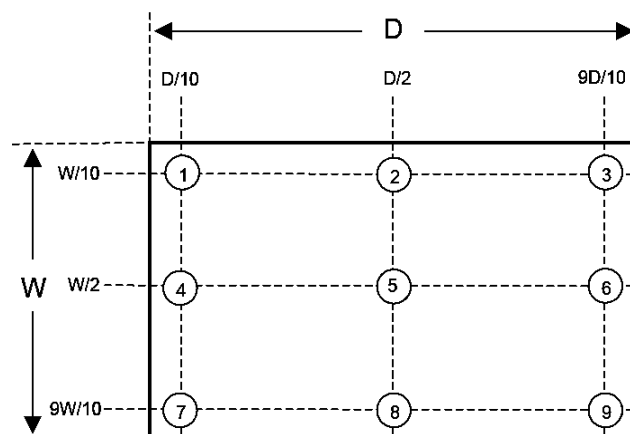
Note 8: Definition white uniformity:

Luminance are measured at the following nine points (P1~P9).

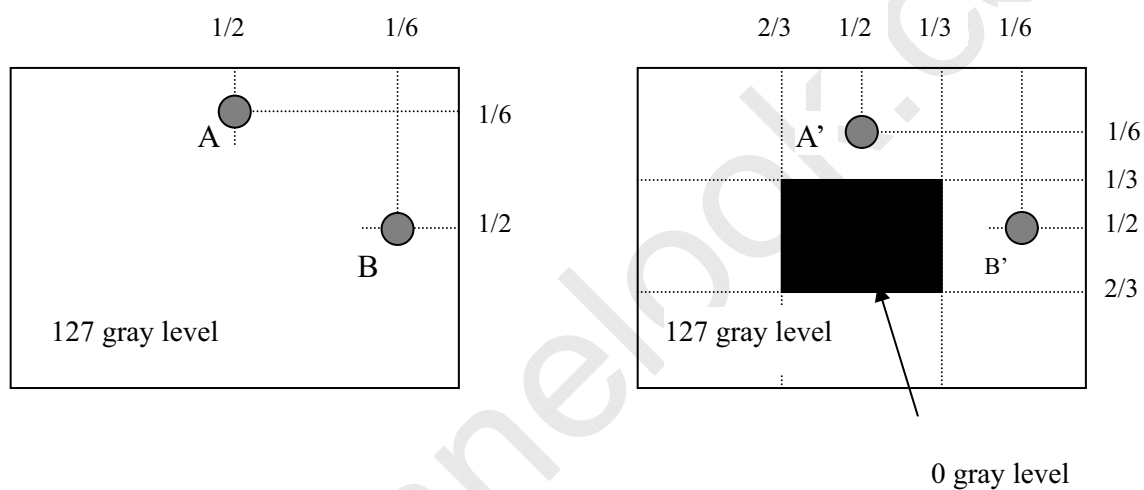
$$\delta_w = \frac{\text{Minimum Brightness of nine points (P1~P9)}}{\text{Maximum Brightness of nine points (P1~P9)}}$$

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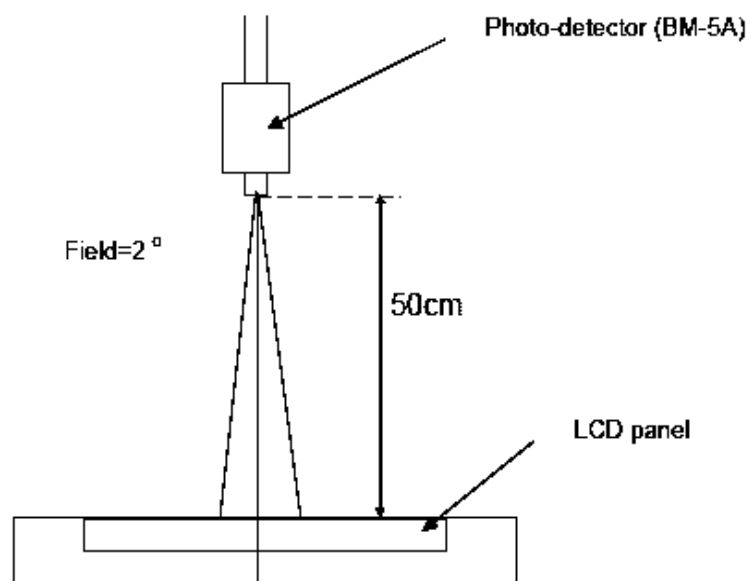
Note 9:



$$|L_A - L_{A'}| / L_A \times 100\% = 2\% \text{ max.}, L_A \text{ and } L_{A'} \text{ are brightness at location A and A'}$$

$$|L_B - L_{B'}| / L_B \times 100\% = 2\% \text{ max.}, L_B \text{ and } L_{B'} \text{ are brightness at location B and B'}$$

Note 10: Optical characteristic measurement setup.



**D.Reliability test items**

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240Hrs	Note 1	Note 2
Low temperature storage	-20°C, 240Hrs	Note 1	Note 2
High temperature & high humidity operation	40°C, 90%RH, 240Hrs (No condensation)	Note 1	Note 2
High temperature operation	50°C, 240Hrs	Note 1	Note 2
Low temperature operation	0°C, 240Hrs	Note 1	Note 2
Thermal Shock (non-operation)	-20°C~60°C -20°C /1Hr, 60°C /1Hr, 100cycles	Note 1	Note 2
Electrostatic discharge (ESD) (non-operation)	Contact: +/-8kV, 150pF(330ohms), 10 times/1 point, 1 time/1 sec, total 16 points Air discharge: +/-15kV, 150pF(330ohms), 10 times/1 point, 1 time/1 sec, total 9 points	Note 1	Note 2
Vibration (non-operation)	Vibration level : 1.5G Bandwidth : 10-300Hz Waveform : sine wave, sweep rate : 10min 30 min for each direction X, Y, Z (1.5 Hrs in total)	Note 1	Note 2
Mechanical Shock (non-operation)	Shock level : 50G, 11ms Waveform : Half sine wave Direction : ±X, ±Y, ±Z One time each direction	Note 1	Note 2
MTBF Demonstration	50,000 hours with confidence level 90%	Note 1	Note 3
Altitude Test	Operation: 10,000ft. Non-operation: 30,000ft.	Note 1	Note 4

Note1: Pass: Normal display image with no obvious non-uniformity and no line defect.

Partial transformation of the module parts should be ignored.

Fail: No display image, obvious non-uniformity, or line defects.

Note2: Evaluation should be tested after storage at room temperature for two hours.

Note 3: The MTBF calculation is based on the assumption that the failure rate distribution meets the Exponential Model (CCFL excluded).

Note 4: The driving style of Backlight CCFL should follow Backlight driving condition (Note 9) when operating in high altitude (above 10,000ft).

E. Safety

(1) Sharp Edge Requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

(2) Materials

a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

F. Display quality

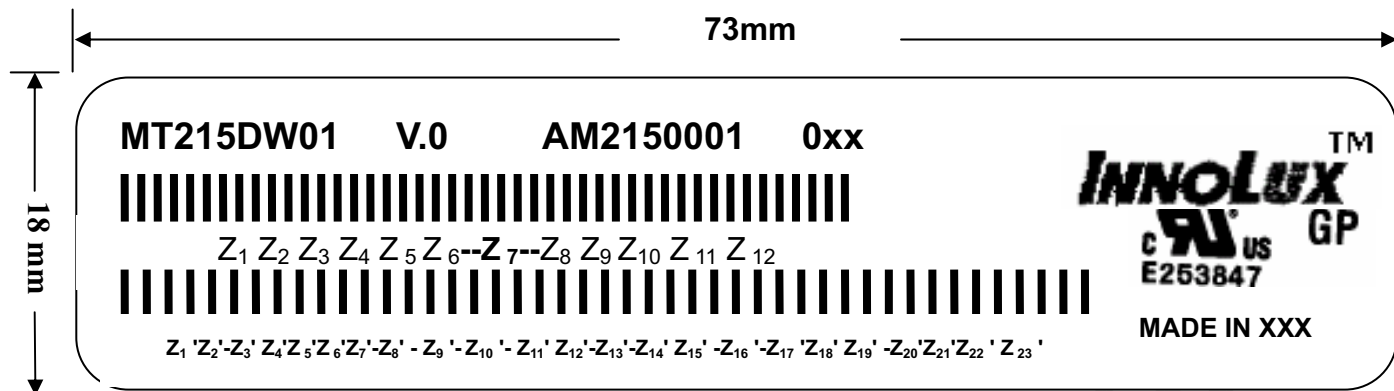
The display quality of the color TFT-LCD module should be in compliance with the Innolux's Incoming inspection standard.

G. Handling precaution

The Handling of the TFT-LCD should be in compliance with the Innolux's handling principle standard.

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H. Label**(1) Module Label**

(a) Model Number: MT215DW01

(b) Version: V.0

(c) Serial ID I: Z₁ Z₂ Z₃ Z₄ Z₅ Z₆ Z₇ Z₈ Z₉ Z₁₀ Z₁₁ Z₁₂

Serial ID includes the information as below:

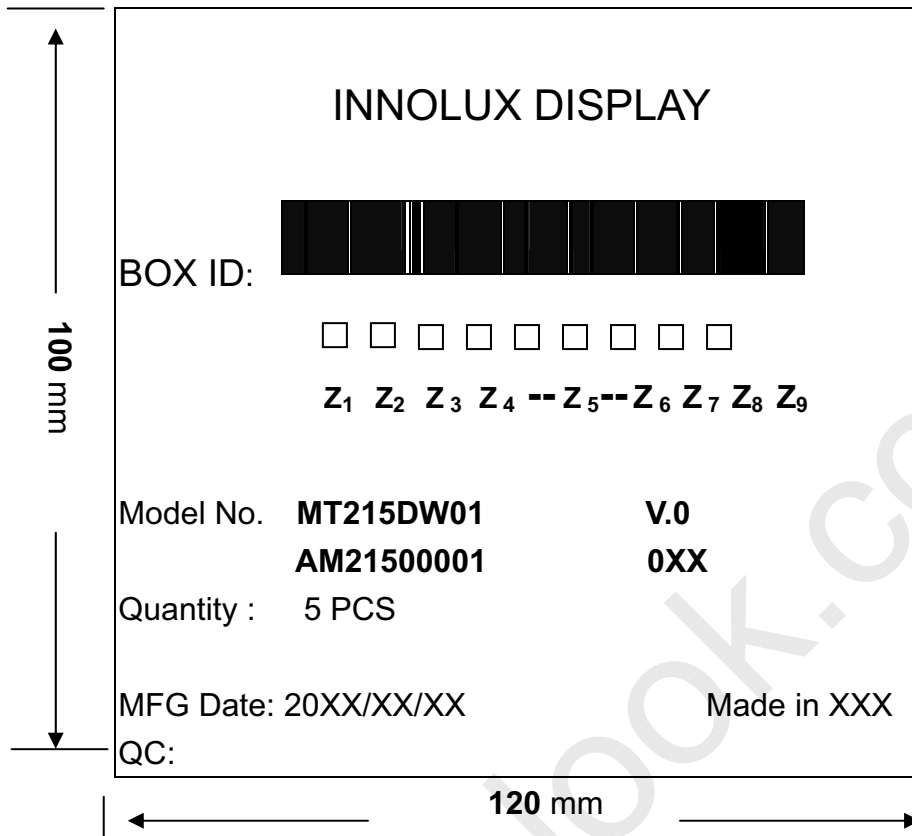
1. Manufactured Date: Year: 0~9, for 2000~2009
2. Month: 1~9 & A~C for Jan.~Dec.
3. Date: 1~9 & A~Z (exclude I, O, Q, U) for 1st~31th
4. Code of grade: 1, 2, 3, 5, E
5. Serial No: Module manufacture sequence no

(d) Serial ID II (INL internal use)

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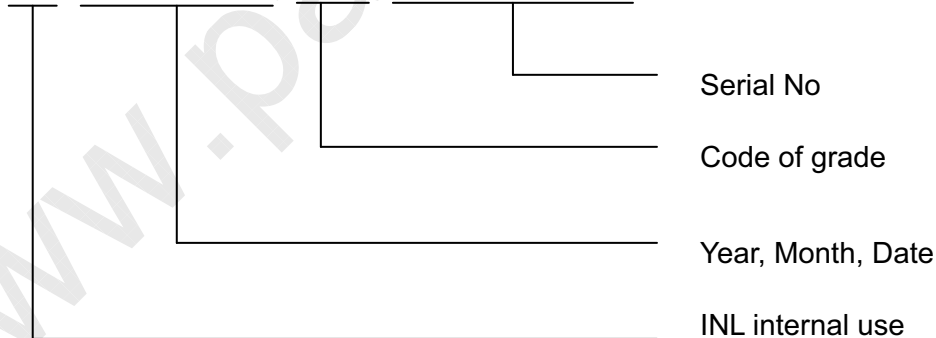
(2) Carton Label



(a) Model Number: MT215DW01

(b) Version: V.0

(c) Packing quantity: 5 pcs

(d) Serial ID: Z₁ Z₂ Z₃ Z₄ Z₅ Z₆ Z₇ Z₈ Z₉

Serial ID includes the information as below:

(a) Manufactured Date: Year: 0~9, for 2000~2009

Month: 1~9 & A~C for Jan.~Dec.

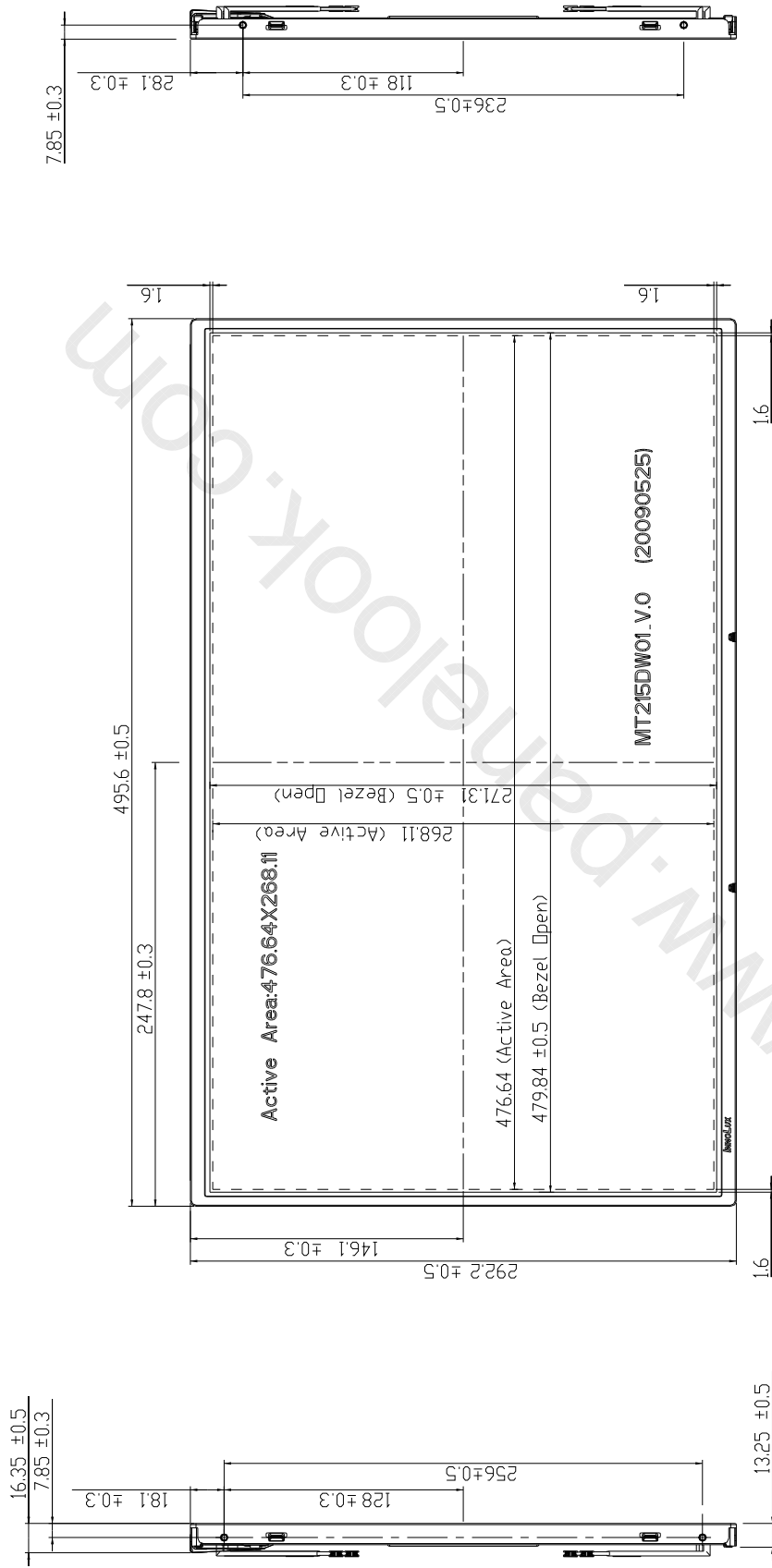
Date: 1~9 & A~Z (exclude I, O, Q, U) for 1st~31th

(b) Code of grade: 1,2, 3, 5, E

(c) Serial No: Module packing sequence no

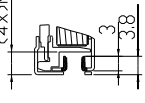
I. ME Drawing

(1) Front view



SCALE 08

(4X)M3 USER HOLE MAX LENGTH 4.7 mm



SECTION: SREW-SREW-SREW
SCALE: 2

- NOTES:
- 1.BACKLIGHT:4 COLD CATHODE FLUORESCENT LAMPS
 - 2.I/F CONNECTOR SPEC: FOXCONN GS23302-001R-7F OR COMPATIBLE
 - 3.LAMP CABLE CONNECTOR TO BE 3500HHS-02L(2 pinsXYEDNHD) OR COMPATIBLE.
 - 4.TORQUE OF M3 USER HOLE SHOULD BE WITHIN 4 kgf-cm
 - 5.THE DIMENSION EXCLUDES DEFORMATION
 - 6.TOLERANCE WITHOUT NOTICE TO BE ±0.5MM
 - 7.DO NOT WIND CONDUCTIVE TAPE AROUND THE BACKLIGHT WIRES

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